No. 200200061

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Turf Merchants, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE , OR CONDITIONING IT PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSE, OR USING IT IN PRODUCING A HYBRID OR T VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 S AMENDED, 7 U.S.C. 2321 ET SEQ.)

RYEGRASS, PERENNIAL

'Promise'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-second day of November, in the year two thousand and four.

Attest:

Commissioner
Plant Variety Protection Office

Secretary of Agriculture

REPRODUCE LOCALLY. *Include form number and date on all reproductions.*

FORM APPROVED - OMB NO. 0581-0055 EXPIRES 12-31-96

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) *(as it is to appear on the Certificate)*

Turf Merchants, Inc.

2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER

EDT

3. VARIETY NAME

Promise

4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*

33390 Tangent Loop Rd
Tangent, OR
97389

5. TELEPHONE *(include area code)*

(541) 926 - 8649

FOR OFFICIAL USE ONLY

PVPO NUMBER

200200061

6. FAX *(include area code)*

(541) 926 - 4435

FILING DATE

January 14, 2002

7. GENUS AND SPECIES NAME

Lolium perenne

8. FAMILY NAME *(Botanical)*

Poaceae

FEES RECEIVED

FILING AND EXAMINATION FEE:

$ 2705

DATE

1/14/2002

9. CROP KIND NAME *(Common name)*

Perennial Ryegrass

CERTIFICATION FEE:

$ 432 -

DATE

10/8/2004

10. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION *(corporation, partnership, association, etc.)* (Common Name)

Corporation

11. IF INCORPORATED, GIVE STATE OF INCORPORATION

Oregon

12. DATE OF INCORPORATION

03 - 15 - 95

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

Steve Tubbs
33390 Tangent Loop Rd.
Tangent, OR 97389

14. TELEPHONE *(include area code)*

(541) 926 - 8649

15. FAX *(include area code)*

(541) 926 - 4435

16. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED *(Follow instructions on reverse)*

a. ☒ Exhibit A. Origin and Breeding History of the Variety

b. ☒ Exhibit B. Statement of Distinctness

c. ☒ Exhibit C. Objective Description of the Variety

d. ☒ Exhibit D. Additional Description of the Variety *(Optional)*

e. ☒ Exhibit E. Statement of the Basis of the Applicant's Ownership

f. ☒ Voucher Sample *(2500 viable untreated seeds or, for tuber propagated varieties verification that tissue culture will be deposited and maintained in an approved public repository)*

g. ☒ Filing and Examination Fee ($2,450), made payable to "Treasure of the United States" *(Mail to PVPO)*

17. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act)

☐ YES *(If "yes," answer items 18 and 19 below)* ☒ No *(If "no," go to item 20)*

18. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?

☒ Yes ☐ No

19. IF "YES" TO ITEM 18, WHICH CLASSES OF PRODUCTION BEYOND BREEDERS SEED?

☒ FOUNDATION ☒ REGISTERED ☒ CERTIFIED

20. HAS THE VARIETY OR HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES?

☐ YES *(If "yes," give names of countries and dates)* ☒ NO

21. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT *(Owner(s))*		SIGNATURE OF APPLICANT *(Owner(s))*	
Steve Tubbs			
NAME *(Please print or type)* Steve Tubbs		NAME *(Please print or type)*	
CAPACITY OR TITLE President	DATE 1/10/02	CAPACITY OR TITLE	DATE

STD-470 (03-96) *(Previous additions are to be destroyed)*

(See reverse for instructions and information collection burden statement)

Exhibit A:

1. Origin and Breeding History

Promise (EDT) Perennial Ryegrass

'Promise' (EDT) perennial ryegrass (*Lolium perenne* L.) is an advanced generation synthetic cultivar selected from the maternal progenies of 30 clones. Thirteen related clones served as additional pollen sources. All parental clones contained a Neotyphodium endophyte. Over 90 percent of the parental germplasm used in the development of the 43 parental clones of 'Promise' traces to plants collected from old turfs of the eastern USA in a germplasm collection and enhancement program initiated by the New Jersey Agricultural Experiment Station in 1962. Many thousands of hectares of turf were examined. The most useful plants were found in New York, new Jersey, Maryland, and Pennsylvania. All selected clones ranged in size from 1 to over 4 meters in diameter indicating that each originated from a single seedling which persisted and grew over a period of many years. The origin of the seed used to establish these turfs is unknown. Additional germplasm was selected from populations used in the development of 'Manhattan II' perennial ryegrass (Funk et al., 1984), and from the cultivars 'Loretta', 'Caravelle', 'Sprinter', 'Magnolia', 'Arika', 'Citation' (Bailey et al., 1978), and 'Birdie'. Plants selected from PI 231,597 (Greece) and PI 197,270 (Finland) provided less than one percent of the parental germplasm.

Plants selected from old turfs and other germplasm sources were evaluated in mowed clonal tests, spaced-plant nurseries, and disease screening tests. Progenies from intercrossing the best performing plants were subjected to many cycles of genotypic and phenotypic recurrent selection combined with population backcrossing to improve turf performance and seed yield.

Eight hundred plants were selected from nine single-plant progeny turf plots established in 1994 and 1995 at the Rutgers University Plant Science Research and Extension Farm at Adelphia, New Jersey. These progenies were chosen on the basis of records of excellent turf performance and freedom from the dollar spot disease incited by a pathogen formerly designated as *Sclerotinia*

homoeocarpa F. T. Bennet, but presently thought to belong in either the genus *Lanzia* Socc. or *Moellerodiscus* Henn. Selected plants were subsequently established in a spaced-plant nursery during the fall of 1997. Forty-three plants were selected from this nursery immediately prior to anthesis during the spring of 1998 and transferred to an isolated crossing block. Selection was based on an attractive dark-green color, lower-growing leafy plants, high shoot density, early maturity, and high seed yield potential. Seed was subsequently harvested from 30 plants with the best floret fertility. Seed of each progeny line was used to establish a turf plot at Adelphia, New Jersey with additional seed of each progeny sent to Advanta Seeds Pacific in Albany, Oregon.

In the fall of 1998 a seed increase block containing plants of thirty progeny lines (1,800 total plants), was established in Albany, Oregon. In 1999 negative mass selection was used and 37% of the plants were rogued from the population. The remaining plants were harvested in bulk and the seed was used to establish a morphological nursery for Plant Variety Protection (PVP) measurements.

References:

1) Funk, C.R., W.A. Meyer, and B.L. Rose. 1984. Registration of 'Manhattan II' perennial ryegrass. Crop Sci. 24:823-824.

2) Bailey, R.H., B.L. Rose, C.R. Funk, and W.A. Meyer. 1978. Registration of 'Citation' perennial ryegrass. Crop Sci. 18:914.

2. Breeder Seed Maintenance:

A breeder seed block was planted in isolation in 1998. Breeder seed was harvested in bulk (37% rogued), in 1999 and is maintained in cold storage. Seed propagation is limited to three generations, one each of foundation, registered, and certified.

3. Stability and Uniformity:

Promise (EDT) is a stable, uniform cultivar. Stability and uniformity has been observed in two generations of seed multiplication (breeder and foundation) and turf plots. Neither off-type or variant plants have been observed in the multiplication process.

Exhibit B

Novelty Statement for 'Promise' (EDT) Perennial Ryegrass

The following summary outlines the distinctive characteristics of 'Promise'. The novelty of 'Promise' is based on the unique combination of these characteristics. 'Promise' is most similar to Manhattan, but may be differentiated by using the following criteria:

1) The heading date of Promise is at least 2 days earlier than Manhattan (tables 1A, 1B).

2) The anthesis date of Promise is at least 2 days earlier than Manhattan (tables 1A, 1B).

3) The mature plant height of Promise is at least 4.5 cm shorter than Manhattan (tables 1A, 1B).

4) Promise has a spike length (upper most node of inflorescence to apex) shorter than Manhattan (tables 1A, 1B).

5) The length of the flag leaf of Promise is at least 3.5 cm shorter than Manhattan (tables 1A, 1B).

6) The genetic color of Promise is darker green compared to Manhattan (tables 1A, 1B).

7) Promise has a sheath length of the flag leaf at least 1 cm shorter than Manhattan (tables 1A, 1B).

8) The length of the leaf blade (first leaf subtending the flag leaf) of Promise is at least 3 cm shorter than Manhattan (tables 1A, 1B).

9) Promise has at least 2 fewer spikelets per spike than Manhattan (tables 2A, 2B).

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURE MARKETING SERVICE
SCIENCE AND TECHNOLOGY PROGRAM
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

EXHIBIT C
(RYEGRASS)

OBJECTIVE DESCRIPTION OF VARIETY
RYEGRASS
(*Lolium* spp.)

NAME OF APPLICANT(S)	TEMPORARY DESIGNATION	VARIETY NAME
Turf Merchants, Inc. c/o Steve Tubbs	EDT	Promise
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code) 33390 Tangent Loop Tangent, Oregon 97389		FOR OFFICIAL USE ONLY PVPO NUMBER 200200061

Place the appropriate number that describes the varietal characteristics of this variety in the boxes below. Use leading zeros when necessary (e.g. 089). Descriptions of characters should represent those that are typical for the variety. Ranges may be given also. Measured data should be for SPACED PLANTS. Give additional description for all characteristics that cannot be adequately described in the form below. Append all pertinent comparative trial and evaluation data. The symbol " ▸" indicates decimal.

1. SPECIES:

__2__ 1 = *L. multiflorum* (annual or italian: includes Westerwoldicum) 2 = *L. perenne* (perennial) 3 = *L. rigidum* (includes Wimmeria)

4 = Hybrid (of species):_____ 5 = Other (Please specify): _____

2. PLOIDY:

__1__ 1= Diploid 2 = Tetraploid 3 = Other (Please specify):_____

3. DURATION:

__3__ 1 = Annual or Biennial 2 = Short lived perennial (3-4 years) 3 = Perennial (more than 4 years)

STANDARD CULTIVARS

1 = GULF	2 = WIMMERIA	3 = LINN	4 = PELO
5 = NORLEA	6 = ABERYSTWYTH S-23	7 = MANHATTAN	8 = PENNFINE

4. MATURITY (50% HEADED) Use standards from above for comparison:

__3__ 1 = Very Early 3 = Early 5 = Medium 7 = Late

__3.34__ DAYS EARLIER THAN... __7__ STANDARD CULTIVAR

____ DAYS LATER THAN... ____ STANDARD CULTIVAR

5. MATURE PLANT HEIGHT (Use standard cultivars from above):

__74.40__ cm High

__9.50__ cm Shorter than..... __7__ STANDARD CULTIVAR

____ cm Taller than ..... ____ STANDARD CULTIVAR

Form S&T- 470-36 (2-99) designed by the Plant Variety Protection Office using MS Word 97, replaces LMGS-470-36(1-84), which may be used.

6. PERCENT WINTER DAMAGE (estimated as percent of the area appearing dead. Use standard cultivars for comparison):

___ Percent Damage of Application Cultivar

___ Percent Damage of ..... ____ STANDARD CULTIVAR

---

7. TURF DENSITY (Use standard cultivars from above):

___ Tillers per 100 square cm

___ Less tillers per 100 square cm than... ____ STANDARD CULTIVAR

___ More tillers per 100 square cm than... ____ STANDARD CULTIVAR

---

8. FLAG LEAF (at full growth, use standard cultivars from above):

16.70 cm Length (from ligule to tip) 5.00 mm Width (at widest point)

4.40 cm Shorter than ..... 7 STANDARD CULTIVAR

▲ cm Longer than ..... ____ STANDARD CULTIVAR

0.00 mm Narrower than..... 7 STANDARD CULTIVAR

___ mm Wider than ..... ____ STANDARD CULTIVAR

7 Flag Leaf at Boot Stage (1 = Deflexed, 3 = Recurved, 5 = Horizontal, 7 = Semi-Erect, 9 = Erect)

---

9. LEAVES:

3 Vernation (1 = Leaves rolled in young shoots, 2 = Leaves semi-rolled (folded with rolled edges), 3 = Leaves folded in young shoots)

0 % Plants with anthocyanin in lower leaf sheath

3 Foliage Color: 1 = Yellow Green, 2 = Medium Green, 3 = Blue Green

---

10. SPIKE:

42.80 mm Spike length (tip to internode below lowest floret)

6.93 mm Shorter than ..... 7 STANDARD CULTIVAR

___ mm Longer than ..... ____ STANDARD CULTIVAR

92.00 mg per ten spikes (trimmed to internode below lowest floret)

3.0 mg lighter per ten spikes than ..... 7 STANDARD CULTIVAR

___ mg heavier per ten spikes than ..... ____ STANDARD CULTIVAR

9.30 florets per spikelet

PERCENTAGE OF PLANTS WITH:

Rachis: 100 % Smooth 0.0 % Rough

Spike Color: 93 % Green 7.0 % Purple

Lemma: 0.0 % Awned

___ mm Awn length 9.07 mm Glume length

---

10. SPIKE (*Continued*)

2 1 = Spikelet length nearly equal to outer glumes
2 = Spikelet length much longer than outer glumes

11. COLEOPTILE:

55.60 % Plants with anthocyanin in coleoptile

12. ANTHER COLOR:

% Plants with white anthers	100 % Plants with yellow anthers
	% Plants with purple anthers

13. ROOT AND PLANT CHARACTERISTICS:

% Plants with prostrate growth habit
0.0 % Plants with flourescent roots
100 % Plants with upright growth habit

14. SEED:

1737 mg per 1000 seeds 59.00 mm Total length of 10 seeds 13.00 mm Total Width of 10 seeds

15. DISEASE (0 = Not Tested, 2 = Highly susceptible, 4 = Moderately Susceptible, 5 = Moderately Resistant, 8 = Highly Resistant)

0	Crown Rust (*Puccinia coronata*)	0	Dollar Spot (*Sclerotinia*)
0	Brown Patch (*Rhizoctonia*)	0	Leaf Spot (*Helminthosporium*)
0	Mildew	0	Snow Mold (*Typhula*)
0	Red Thread (*Corticum*)		Other (Please Specify):

16. INSECT: (0 = Not Tested, 2 = Highly susceptible, 4 = Moderately Susceptible, 5 = Moderately Resistant, 8 = Highly Resistant)

Please Specify:

17. Give resemblance value in left column and variety code number in right column for variety with which comparison is made (1= less than, 2 = same as, 3 = more erect, more resistant, denser, more persistent, darker or greater height):

Resemblance	Character	Similar Variety	
2	Plant Habit (erectness)	7	1 = GULF
	Tillering		2 = WIMMERIA 62
	Winter Hardiness		3 = LINN
	High Temperature Stress Resistance		4 = PELO
3	Turf Persistence	7	5 = NORLEA
3	Plant Color	7	6 = ABERYSTWYTH S-23
1	Vertical Seedling Growth Rate	7	7 = MANHATTAN
3	Crown Density	7	8 = PENNFINE
3	Mower Shredding Resistance	7	

20020061

18. GIVE AREA OF ADAPTATION AND INTENDED USE: Promise is adapted to regions where perennial ryegrass is used for turf.

19. GIVE AREA TEST RESULTS PRESENTED FROM: Albany, Oregon

20. COMMENTS:

A morphological nursery designated 99PVPLP1 was established in September of 1999, in Albany, Oregon. Experimental design consisted of 19 entries; 3 replications per entry; 20 plants per replication; for a total of 60 plants per entry. Charger, and Manhattan were used as standards. Plants were established on 2.5 foot centers with a skip row between replications and between entries.

The nursery received 30 pounds of nitrogen per acre rate following establishment and 50 pounds of nitrogen per acre per year in 2000 and 2001. The fertilizer source was 15-15-15 and was applied as a split application with ½ applied in the spring and ½ in the fall. The nursery was sprayed twice each spring, 3 weeks between applications, with Tilt (2 oz/acre rate), to prevent stem rust. One pound of Karmex per acre rate was applied during late summer to prevent emergence of volunteer seedlings.

Data was analyzed using analysis of variance for a randomized complete block design. Means were calculated for each replication and then analyzed.

Exhibit D:

Additional Description

Promise (EDT) Perennial Ryegrass

Promise is an improved turf-type perennial ryegrass. It exhibits a dwarf growth habit and a blue green genetic color compared to Manhattan (tables 1A, 1B). Promise is of early maturity with a heading date earlier than Manhattan, but later than Charger (tables 1A, 1B). The morphological characteristics; mature plant height, spike length, and flag leaf length are all longer for both Manhattan and Charger compared to Promise (tables 1A, 1B). The spike characteristics; spikelet length, glume length, lemma length for Charger are longer compared to Promise (tables 2A, 2B). Promise has a lower milligram weight of ten spikelets compared to Charger (tables 2A, 2B). Promise exhibits a shorter spike length from the lower most whorl to the tip of the spike than Manhattan and Charger (tables 2A, 2B). Promise differs from both Charger and Manhattan in the milligram weight of 1,000 seeds (tables 3A, 3B). Promise exhibits a higher percent of anthocyanin in the seedling coleoptile compared to Manhattan (tables 3A, 3B). Promise does not produce purple colored anthers compared to Manhattan and Charger (tables 3A, 3B).

Table 1A 2000 Morphological Data

Cultivar	Heading Date (days after April 1)	Anthesis Date (days after April 1)	Genetic Color	Mature Plant Height (cm)	Plant Width (cm)	Panicle Length (cm)	Flag Leaf Length (cm)	Flag Leaf Width (cm)	Flag Leaf Height (cm)	Flag Leaf Sheath Length (cm)	Flag Leaf Internode Length (cm)	Leaf Blade Length (cm)	Leaf Blade Width (cm)	Leaf Blade Height (cm)	Leaf Sheath Length (cm)
EDT	37.33	62.67	6.00	74.40	20.57	42.80	28.73	5.00	43.67	12.03	13.93	26.73	5.00	26.00	8.70
Charger	32.67	59.00	4.00	80.63	19.30	49.90	32.53	6.00	43.03	13.03	13.07	28.60	5.00	25.77	9.00
Manhattan	40.67	66.00	3.67	83.90	22.27	49.73	34.83	5.67	47.80	13.73	14.13	31.57	5.33	29.23	9.93
LSD (5%)	1.91	1.91	.074	4.85	1.65	2.62	1.88	0.65	3.25	0.58	1.37	2.01	0.53	2.63	0.55
C.V.	3.42	2.12	10.86	4.68	5.87	4.18	4.30	8.53	5.59	3.31	7.84	5.01	7.49	7.44	4.47

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.
■ Significant difference over two years one location.
■ Significant difference over one year one location.

Table 1B 2001 Morphological Data

Cultivar	Heading Date (days after April 1)	Anthesis Date (days after April 1)	Genetic Color	Mature Plant Height (cm)	Plant Width (cm)	Panicle Length (cm)	Flag Leaf Length (cm)	Flag Leaf Width (cm)	Flag Leaf Height (cm)	Flag Leaf Sheath Length (cm)	Flag Leaf Internode Length (cm)	Leaf Blade Length (cm)	Leaf Blade Width (cm)	Leaf Blade Height (cm)	Leaf Sheath Length (cm)
EDT	42.67	62.67	5.00	63.50	22.50	31.53	23.73	4.00	42.03	10.87	10.10	24.57	4.33	29.00	8.37
Charger	36.33	59.00	5.00	69.43	24.73	39.43	26.40	4.00	40.33	11.33	11.03	27.73	3.67	25.70	8.17
Manhattan	45.00	64.67	4.33	68.13	26.77	36.90	27.40	4.00	42.97	12.03	9.67	27.60	4.33	28.93	8.63
LSD (5%)	1.61	1.38	0.30	3.91	4.20	2.23	1.37	0.43	2.66	0.59	1.11	1.53	0.50	2.22	0.52
C.V.	2.64	1.57	4.42	4.45	11.86	4.64	4.01	8.02	4.89	3.87	8.40	4.33	8.95	6.10	4.75

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.
■ Significant difference over two years one location.
■ Significant difference over one year one location.

Table 2A

2000 Laboratory Morphological Data

Cultivar	Lemma Length (mm)	Lemma Width (mm)	Glume Length (mm)	Florets per Spikelet	Spikelet Length (mm)	Spikelets per Panicle	Weight of 10 Spikelets (mg)	Length of Panicle From Lower Most Spikelet to Tip (cm)
EDT	5.90	1.30	9.07	9.33	15.57	22.33	92.00	19.50
Charger	6.43	1.27	9.97	10.00	17.80	23.67	126.00	24.17
Manhattan	6.20	1.30	9.27	10.00	17.30	26.33	95.00	24.80
LSD (5%)	0.21	0.07	0.57	0.97	1.15	1.90	14.25	1.28
C.V.	2.39	3.90	4.58	7.55	5.08	5.61	11.43	4.25

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.
■ Significant difference over two years one location.
■ Significant difference over one year one location.

Table 2B

2001 Laboratory Morphological Data

Cultivar	Lemma Length (mm)	Lemma Width (mm)	Glume Length (mm)	Florets per Spikelet	Spikelet Length (mm)	Spikelets per Panicle	Weight of 10 Spikelets (mg)	Length of Panicle From Lower Most Spikelet to Tip (cm)
EDT	5.63	1.23	7.60	6.33	11.47	23.33	53.00	16.87
Charger	6.13	1.30	8.20	7.67	13.93	22.67	77.67	20.00
Manhattan	5.77	1.30	7.23	6.00	11.67	25.33	49.00	19.40
LSD (5%)	0.23	0.10	0.46	0.90	0.63	1.36	7.62	1.03
C.V.	2.88	5.78	4.53	10.72	3.92	4.08	11.02	4.23

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.
■ Significant difference over two years one location.
■ Significant difference over one year one location.

Table 3A

2000 Additional Morphological Measurements of the Panicle

Cultivar	Panicle Branch Pubescence % Present	Lemma Awn % Present	Leaf Blade Anthocyanin % Present	Seedling Anthocyanin % Purple	Rachis of Panicle % Smooth	Seed Weight (mg per 1000 seeds)	Anther Color % Purple	Panicle Color % Purple	Panicle Re-Growth in Fall % Re-Grown	Flag Leaf Boot Stage % Re-curve	Flag Leaf Boot Stage % Horizontal	Flag Leaf Boot Stage % Semi-Erect	Flag Leaf Boot Stage % Erect
EDT	0	0	0	56	100	1737	0	7	47	0	25	58	17
Charger	0	0	0	57	100	1541	3	7	55	0	30	53	17
Manhattan	0	0	0	26	100	2102	2	12	63	0	18	52	30

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

Table 3B

2001 Additional Morphological Measurements of the Panicle

Cultivar	Panicle Branch Pubescence % Present	Lemma Awn % Present	Leaf Blade Anthocyanin % Present	Seedling Anthocyanin % Purple	Rachis of Panicle % Smooth	Seed Weight (mg per 1000 seeds)	Anther Color % Purple	Panicle Color % Purple	Panicle Re-Growth in Fall % Re-Grown	Flag Leaf Boot Stage % Re-curve	Flag Leaf Boot Stage % Horizontal	Flag Leaf Boot Stage % Semi-Erect	Flag Leaf Boot Stage % Erect
EDT	0	0	0	62	100	1847	0	3	3	0	7	68	25
Charger	0	0	0	35	100	1647	3	5	5	2	7	75	16
Manhattan	0	0	0	25	100	2136	3	3	2	0	8	75	17

Measurements taken in Albany, Oregon; 3 reps; 20 plants/rep = 60 data points.
■ Cultivar under evaluation.

REPRODUCE LOCALLY. *Include form number and date on all reproductions.*

FORM APPROVED - OMB NO. 0581-0055 EXPIRES 12-31-96

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY DIVISION - PLANT VARIETY PROTECTION OFFICE

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine is a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
Turf Merchants, Inc	EDT	Promise
4. ADDRESS *(Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)*	**5. TELEPHONE** *(include area code)*	**6. FAX** *(include area code)*
33390 Tangent Loop Rd. Tangent, OR 97389	(541) 926 - 8649	(541) 926 - 4435
	7. PVPO NUMBER 200200061	

8. Does the applicant own all rights to the variety? *Mark an "X" in appropriate block.* If no, please explain. [X] YES [ ] NO

9. Is the applicant (individual or company) a U.S. national or U.S. based company?
If no, give name of country _____ [X] YES [ ] NO

10. Is the applicant the original breeder? If no, please answer the following:

a. If original rights to variety were owned by individual (s):
Is (are) the original breeder(s) a U.S. national(s)? If no give name of country _____ [X] YES [ ] NO

b. If original rights to variety were owned by a company:
Is the original breeder(s) U.S. based company? If no give name of country _____ [X] YES [ ] NO

11. Additional explanation on ownership (*If needed, use reverse for extra space*):

PLEASE NOTE:

Plant variety protection can be afforded only to owners (not licensees) who meet one of the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original breeder, both the original breeder and the applicant must meet one of the above criteria.

The original breeder may be the individual or company who directed final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definition.

Public reporting burden for this collection of information is estimated to average 10 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Agriculture, clearance Officer, OIRM, AG Box 7630, Jamie L. Whitten Building, Washington D.C. 20250. When replying, refer to OMB No. 0581-0055 and form number in your letter.

Under the PRA of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

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